

**WHAT IS CLAIMED IS:-**

1. A printer cartridge for an inkjet printer including:
  - an ink storage reservoir;
  - a printhead in communication with said ink storage reservoir;
  - 5 a refill port in communication with the ink storage reservoir and arranged to receive refill ink for replenishing the ink storage reservoir; and
  - an integrated circuit assembly arranged to store information relating to the properties of at least one of the refill ink and the ink stored in the ink storage reservoir.
- 10 2. A printer cartridge according to claim 1, wherein the information relating to the properties of the refill ink or the ink stored in the ink storage reservoir includes any of:
  - the amount of ink remaining in the ink storage reservoir;
  - the origin of the refill ink;
  - the rheological properties of the refill ink; and
  - 15 the color of the refill ink.
3. A printer cartridge according to claim 1, wherein the integrated circuit assembly includes an electrical contact mounted upon the inkjet printer for connection with an integrated circuit of a refill cartridge containing the refill ink.
- 20 4. A printer cartridge according to claim 1, wherein the printhead is a pagewidth printhead.
5. A method for maintaining the authenticity of an ink supply of an inkjet printer of a type including a removable printer cartridge containing an ink storage means in communication with a pagewidth  
25 printhead, the method including the steps of:
  - providing an ink refill cartridge including an intergrated circuit assembly that stores information relating to the properties of the refill ink;
  - connecting the ink refill cartridge to the printer cartridge; and
  - performing a test to compare the properties of the refill ink with the properties of the ink stored  
30 in the ink storage means.